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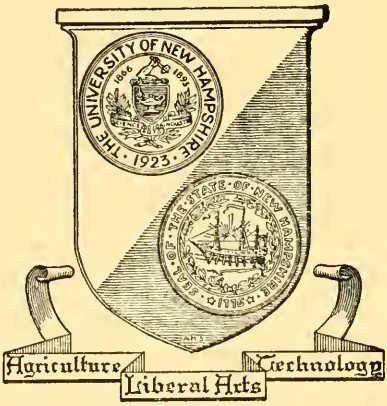

The University
of
New Hampshire

Bulletin 365 September, 1946

NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION
Department of Agronomy

Results of Seed Tests For 1946

Made for the
STATE DEPARTMENT OF AGRICULTURE

By BESSIE G. SANBORN

THE UNIVERSITY OF NEW HAMPSHIRE
DURHAM, N. H.

RESULTS OF SEED TESTS

Made July 1, 1945, to June 30, 1946

This report contains the results of the seed inspection work for the State Department of Agriculture of 296 official samples collected throughout the state during the period from July 1, 1945, to June 30, 1946 by Mr. C. A. Lyon, Seed Control Supervisor, and Mr. George Laramie, Inspector. In addition to these official samples, 1,692 private samples were analyzed, making a total of 1,988 samples inspected.

The dealers are listed in alphabetical order. The New Hampshire seed law requires that both agricultural and vegetable seeds must be labeled with the calendar month and year when last tested for germination, and requires that this germination test shall have been completed within nine months of being offered for sale. In the following tables, if the date of test was within the prescribed nine months, the sample is marked satisfactory (S) in this respect; if no date was given, a dash appears indicating a violation; if the date was a violation of the law because the test was not made within nine months, the date given on the tag or label appears in that column.

The first part of the report deals with 105 samples of agricultural seed tested for purity, germination and noxious weed content. There is a tolerance or allowable variation from the guarantee for both purity and germination, in accordance with the Rules for Seed Testing adopted by the Association of Official Seed Analysts, so that, for instance, a sample of timothy guaranteed 99.20% for purity and 85% for germination could test as low as 98.45% for purity and 78% for germination and be "satisfactory." If a sample when tested for purity falls within the allowable variation, it is marked "S" (satisfactory); if below the allowable variation, and therefore, a violation, the actual figure found for purity is given. The same is true for germination in the case of agricultural seeds.

The second part of the report applies to 191 samples of vegetable seeds which were tested for germination only. The New Hampshire seed law requires that vegetable seeds must test up to the prescribed standard for that kind of seed, and that there is no tolerance from the adopted standards. In the column headed "Found" if the sample was up to standard, an "S" (satisfactory) appears; if below standard, the figure found upon test appears. The exception to this is in the case of a given sample being marked with a guarantee, which is not required if vegetable seed is up to standard; then, if the seed is found to be below the regular tolerance from that guaranteed figure, the figure found upon test is listed as "mislabeled" even though it might in some cases be up to standard.

The New Hampshire seed law and the rules and regulations thereunder, including the germination standards for vegetable seed, follow:

STATE OF NEW HAMPSHIRE

CHAPTER 224, REVISED LAWS
(As inserted by Chap. 54 Laws of 1943)

AN ACT

To Regulate the Labeling, Sale and Offering or Exposing for Sale, of Agricultural and Vegetable Seeds.

Agricultural and Vegetable Seeds

1. **Definitions.** Terms used in this chapter shall be construed as follows:

I. The term "agricultural seeds" shall include the seeds of grass, forage, cereal and fiber crops and any other kinds of seeds commonly recognized within this state as agricultural or field seeds, and mixtures of such seeds.

II. The term "vegetable seeds" shall include the seeds of those crops which are grown in gardens or on truck farms and are generally known and sold under the name of vegetable seeds in this state.

III. The term "weed seeds" shall include the seeds of all plants generally recognized as weeds within this state, and shall include noxious weed seeds.

IV. Noxious weed seeds shall be divided into two classes, "primary noxious weed seeds" and "secondary noxious weed seeds" as herein defined; provided, that the commissioner of agriculture may add to or subtract from the list of seeds included under either definition whenever he finds that such additions or subtractions are within the respective definitions.

V. "Primary noxious weed seeds" shall include the seeds of perennial weeds such as those that reproduce and spread by underground roots or stems as well as by seed, and which, when established, are highly destructive and difficult to control in this state by ordinary good cultural practice. Primary noxious weed seeds in this state are the seeds of: Canada thistle (Cirsium arvense), field bindweed (Convolvulus arvensis), and quackgrass (Agropyron repens).

VI. "Secondary noxious weeds seeds" shall include the seeds of such weeds as are very objectionable in field, lawns, or gardens of this state, but can be controlled by good cultural practices. The secondary noxious weed seeds in this state are the seeds of: dodder (Cuscuta spp.) and crab grass (Digitaria sanguinalis).

VII. The term "labeling" includes all labels, and other written, printed, or graphic representations, in any form whatsoever, accompanying and pertaining to any seed whether in bulk or in containers, and includes invoices.

VIII. The term "advertisement" means all representations, other than those on the label, disseminated in any manner or by any means, relating to seed within the scope of this chapter.

2. **Label Requirement.** Each separate container of agricultural or vegetable seed, including seeds in small packets, which is sold, offered for sale, or exposed for sale, within this state for sowing purposes shall bear thereon or have attached thereto in a conspicuous place a plainly written or printed label or tag in the English language, giving the information as set forth in sections 3 and 4.

3. **Agricultural Seeds.** For agricultural seeds the following is required:

I. Commonly accepted name of kind, or kind and variety, of each agricultural seed component in excess of five per cent of the whole and the percentage by weight of each. Where more than one component is required to be named, the word "mixture" or "mixed" shall be associated with the name on the label.

II. Lot number or other lot identification.

III. Origin, if known, of alfalfa, red clover and field corn (except hybrid corn). If the origin is unknown, that fact shall be stated.

IV. Percentage by weight of all weed seeds, including those known as noxious weeds.

V. Secondary noxious weeds. The name and approximate number of each kind of secondary noxious weed seed, per ounce in groups (A) and (B) and per pound in groups (C) and (D), when present singly or collectively in excess of—

(A) One seed or bulblet in each 5 grams of Agrostis spp., Poa spp., Rhodes grass, Bermuda grass, timothy, orchard grass, fescues (except meadow fescue), alsike and white clover, reed canary grass, Dallis grass, and other agricultural seeds of similar size and weight, or mixtures within this group;

(B) One seed or bulblet in each 10 grams of ryegrass, meadow fescue, foxtail millet, alfalfa, red clover, sweetclovers, lespedezas, smooth brome, crimson clover, Brassica spp., flax, Agropyron spp., and other agricultural seeds of similar size and weight, or mixtures within this group, or of this group with (A);

(C) One seed or bulblet in each 25 grams of proso, Sudan grass and other agricultural seeds of similar size and weight, or mixtures not specified in (A), (B), or (D);

(D) One seed or bulblet in each 100 grams of wheat, oats, rye, barley, buckwheat, sorghums (except Sudan grass), vetches, and other agricultural seeds of a size and weight similar to or greater than those within this group, or any mixtures within this group.

All determinations of noxious weed seeds are subject to tolerances and methods of determination prescribed in the rules and regulations under this chapter.

VI. Percentage by weight of agricultural seeds other than those required to be named on the label.

VII. Percentage by weight of inert matter.

VIII. For each named agricultural seed, percentage of germination, exclusive of hard seed, percentage of hard seed, if present, and the calendar month and year the test was completed to determine such percentages.

IX. Name and address of the person who labeled said seed, or who sells, offers, or exposes said seed for sale within this state.

4. **Vegetable Seeds.** For vegetable seeds, the following is required:

I. Name of kind and variety of seed, and the calendar month and year when last tested for germination.

II. For seeds which germinate less than the standard last established by the commissioner of agriculture hereunder, and in type not smaller than ten point size; percentage of germination exclusive of hard seed; percentage of hard seed, if present; and the words "below standard."

III. Name and address of the person who labeled said seed, or who sells, offers or exposes said seed for sale within this state.

5. **Illegal Sales.** It shall be unlawful for any person to sell, offer for sale or expose for sale any agricultural or vegetable seed within this state:

I. Unless the test to determine the percentage of germination required by sections 3 and 4 shall have been completed within a nine-month period, exclusive of the calendar month in which the test was completed, immediately prior to sale, exposure for sale, or offering for sale or transportation.

II. Not labeled in accordance with the provisions hereof, or having a false or misleading labeling.

III. Pertaining to which there has been a false or misleading advertisement.

IV. Any agricultural seeds containing any primary noxious weed seeds except as may be allowed under tolerances prescribed in the rules and regulations hereunder.

6. **Prohibitions.** It shall be unlawful for any person within this state:

I. To detach, alter, deface, or destroy any label provided for herein or the rules and regulations made and promulgated hereunder, or to alter or substitute seed, in a manner that may defeat the purposes hereof.

II. To disseminate any false or misleading advertisement concerning agricultural or vegetable seed in any manner or by any means.

III. To hinder or obstruct in any way any authorized person in the performance of his duties hereunder.

IV. To fail to comply with a "stop sale" order.

7. **Exemptions.** The provisions of sections 2 to 6, inclusive, do not apply to seed or grain not intended for sowing purposes, nor to seed in storage in, or consigned to, a seed cleaning or processing establishment for cleaning or processing, provided, that any labeling or other representation which may be made with respect to the unclean seed shall be subject to the provisions hereof.

8. **Exceptions.** No person shall be subject to the penalties hereof for having sold, offered or exposed for sale in this state any agricultural or vegetable seeds, which were incorrectly labeled or represented as to kind, variety, or origin which seeds cannot be identified by examination thereof, unless he has failed to take all proper precautions to insure the identity to be that stated in accordance with rules and regulations hereunder.

9. **Duties and Authority of Commissioner of Agriculture.** The commissioner of agriculture, who may act through his authorized agents, shall have the power:

I. To sample, inspect, make analyses of, and test, agricultural and vegetable seeds transported, sold, offered or exposed for sale within this state for sowing purposes, at such time and place and to such extent as he may deem necessary to determine whether said agricultural or vegetable seeds are in compliance with the provisions hereof, and to notify promptly the person who transported, sold, offered or exposed the seed for sale, of any violation.

II. To prescribe, and after public hearing to adopt, rules and regulations governing the methods of sampling, inspecting, analysis, tests, and examination of agricultural and vegetable seed, and the tolerances to be followed in the administration hereof, which shall be in general accord with officially prescribed practice in interstate commerce, and such other rules and regulations as may be necessary to secure the efficient enforcement hereof.

III. To enter upon any public or private premises during regular business hours in order to have access to seeds subject to this chapter and the rules and regulations promulgated hereunder.

IV. To issue written or printed "stop sale" orders which shall prohibit further sale of any lot of agricultural or vegetable seed which the commissioner has reason to believe is in violation of any of the provisions hereof until the law has been complied with or said violation otherwise legally disposed of: Provided, that no "stop sale" order shall be issued or attached to any lot of seed without first giving the owner or custodian of such seed an opportunity to comply with the law or to withdraw the seed from sale.

V. To establish and maintain or make provision for seed testing facilities, to employ qualified persons, and to incur such expenses as may be necessary to comply with these provisions.

VI. To make or provide for making purity and germination tests of seeds for farmers and dealers on request; to prescribe rules and regulations governing such testing; and to fix and collect charges for the tests made. All fees collected hereunder shall be paid over by the commissioner to the state treasurer who shall keep the same in a special fund to be used only for purposes of this chapter.

VII. To cooperate with the United States department of agriculture in seed law enforcement.

10. **Seizure.** Upon the recommendation of the commissioner of agriculture or his duly authorized agents, the court of competent jurisdiction in the area in which the seed is located shall cause the seizure and subsequent denaturing, processing, or destruction to prevent the use for sowing purposes of any lot of agricultural or vegetable seed found to be unfit for sowing purposes: Provided, that in no instances shall the denaturing, processing, or destruction be ordered without first having given the claimant of said seed an opportunity to apply to said court for the release of said seed.

11. **Penalties.** Whoever violates any of the provisions of this chapter or any rule or regulation promulgated hereunder shall be fined not exceeding one hundred dollars for the first offense and not exceeding two hundred and fifty dollars for each subsequent offense. Fines collected hereunder shall be paid, by the court collecting the same, to

the commissioner of agriculture and by him forwarded to the state treasurer for the use of the state.

12. **Publication.** The commissioner of agriculture shall publish, or cause to be published, the results of tests and analyses of samples of agricultural and vegetable seeds, as herein provided, together with the names and addresses of the persons from whom the samples of seed were obtained. He may publish such other information as he may deem advisable concerning the value, character and use of certain seeds.

2. **Takes Effect.** This act shall take effect upon its passage.

Approved March 10, 1943.

Sampling.

(a) In order to secure a representative sample, equal portions shall be taken from evenly distributed parts of the quantity of seed to be sampled. Access shall be had to all parts of that quantity.

(b) For free-flowing seed in bags or bulk, a probe or trier shall be used. For small free-flowing seed in bags, a probe or trier long enough to sample all portions of the bag should be used.

(c) Non-free-flowing seed, such as certain grass seed, uncleaned seed, or screenings, difficult to sample with a probe or trier, shall be sampled by thrusting the hand into the bulk and withdrawing representative portions.

(d) The portions shall be combined into a composite sample or samples.

(e) As the seed is sampled, each portion shall be examined, and, whenever there appears to be a lack of uniformity, additional samples shall be taken to show such lack of uniformity as may exist.

Bulk seeds shall be sampled by inserting a long probe or thrusting the hand into the bulk as circumstances require in several uniformly distributed parts of the quantity being sampled.

Bags. (1) In quantities of five bags or less, each bag shall be sampled.

(2) In quantities of more than five bags, at least every fifth bag but not less than five bags shall be sampled. Samples shall be drawn from unopened bags except under circumstances where the identity of the seed has been preserved.

In sampling packet seeds, entire unopened packets shall be taken.

Size of sample. The following are minimum weights of samples of seed to be submitted for analysis, test, or examination:

(1) Two ounces of grass seed not otherwise mentioned, white or alsike clover, or seeds not larger than these.

(2) Five ounces of red or crimson clover, alfalfa, ryegrass, bromegrasses, millet, flax, rape, or seeds of similar size.

(3) Two pounds of cereals, vetches, or seeds of similar or larger size.

(4) Two quarts of screenings.

Analysis.

The New Hampshire seed laboratory will be guided in making purity and germination tests by the rules and regulations prescribed under the Federal Seed Act.

Tolerance.

Owing to the natural variation between tests, the following tolerances shall be allowed between the percentages found by analysis, test or examination and the percentages stated on the tag accompanying the seed:

For purity: Allowing "a" to represent the component being considered and "b" the difference between that percentage and 100, according to the following formula:

$$\text{Pure seed tolerance} = 0.6 + \left(0.2 \times \frac{a \times b}{100}\right)$$

a sample of timothy guaranteed 99.20 would have an allowable variation of .75 or could test as high as 99.95 or as low as 98.45 and be "satisfactory."

For germination: The following tolerances are applicable:

Healthy sprouts found by test in each 100 seeds	Tolerance
96 or over	5
90 or over but less than 96	6
80 or over but less than 90	7
70 or over but less than 80	8
60 or over but less than 70	9
Less than 60	10

Therefore, a sample of seed guaranteed 85% for germination may be as high as 92% or as low as 78% and be "satisfactory."

For weed seeds: The law requires in the labeling of agricultural seed (1) that the percentage of all weed seeds present shall be shown on the tag, (2) that no primary noxious weed seeds shall be present in the sample, and (3) that secondary noxious weed seeds shall be given by name and approximate number, per ounce in groups (A) and (B) and per pound in groups (C) and (D), when present singly or collectively in excess of—

(A) one seed or bulblet in each 5 grams of Agrostis species, Poa species, Rhodes grass, Bermuda grass, timothy, orchard grass, fescues (except meadow fescue), alsike and white clover, reed canary grass, Dallis grass, and other agricultural seeds of similar size and weight, or mixtures within this group;

(B) One seed or bulblet in each 10 grams of ryegrass, meadow fescue, foxtail millet, alfalfa, red clover, sweetclovers, lespedezas, smooth brome, crimson clover, Brassica species, flax, Agropyron species, and other agricultural seeds of similar size and weight, or mixtures within this group, or of this group with (a);

(C) One seed or bulblet in each 25 grams of proso, Sudan grass and other agricultural seeds of similar size and weight, or mixtures not specified in (A), (B), or (D);

(D) One seed or bulblet in each 100 grams of wheat, oats, rye, barley, buckwheat, sorghum (except Sudan grass), vetches, and other agricultural seeds of a size and weight similar to or greater than those within this group, or any mixtures within this group.

Certain tolerances are allowed, however, to provide for variations and unavoidable errors, but only within very narrow limits and for which there is always a standard formula for computation. Examples: (1) Timothy guaranteed only 2 per cent weed seeds will not be condemned if it has a 2.59 per cent. (2) No primary noxious weed seeds are allowed, but the presence of two such seeds in 50 grams of timothy would not be considered a violation. (3) Similarly, some slight variation from the minimum requirement for labeling secondary noxious weed seeds will be passed as satisfactory.

Free Testing.

The Seed Testing Laboratory will allow six free tests, in a given year, to any resident company or person of New Hampshire, but such seeds must be received in the laboratory during the months of November, December, January and February. This number of samples, not including mixture, may be analyzed either for purity or for germination, or three samples for both purity and germination, free of charge. A given seed company will be entitled to six private tests without charge, but not six from each branch store. For numbers in excess of six, a charge will be made for labor and consumable supplies only, the amount depending on the type of sample according to the following schedule:

Germination tests of all crop seeds, including timothy, clovers and alfalfa, 25 cents each;

Germination tests of all grasses except timothy, 50 cents each;

Germination tests of mixtures, 25 cents for each kind of seed present;

Purity analyses of cereals like corn and oats, 50 cents each; and of timothy, 75 cents each;

Purity analyses of all other kinds of crop seeds, except grasses, 75 cents each;

Purity analyses of the smaller grass seeds and of all mixtures of not more than two kinds of agricultural seeds, $1.00 each:

All purity analyses of special mixtures, including those for lawn and pasture seeding, a charge sufficient to cover the actual cost of working the sample submitted for test, minimum charge of $1.25.

Such private samples of seed to be tested should be drawn in such a way as to be representative of the bulk lot from which they are taken, and should be addressed to the State Seed Testing Laboratory, Durham, New Hampshire. Such private tests cannot be declared as state official tests unless drawn by a representative of the department of agriculture, as provided in Chapter 224 of the Public Laws. Fees must be paid before reports will be sent out.

The minimum weights of samples to be submitted for analysis are:

1. Two ounces of grass seed, white or alsike clover, or seeds not larger than these.
2. Five ounces of red or crimson clover, alfalfa, ryegrasses, millet, rape, or seeds of similar size.
3. One pound of cereal, vetches or seeds of similar or larger size.

The minimum number of seeds of any one kind to be submitted for a germination test is 400.

Germination Standards for Vegetable Seed.

Following are the germination standards established by the commissioner of agriculture pertaining to Section four of the act entitled Vegetable Seeds.

	Per cent		Per cent
Artichoke	60	Broccoli	75
Asparagus, including hard seeds	70	Brussells sprouts	70
Beans (except lima)	75	Cabbage	75
Beans, lima	70	Carrot	55
Beets	65	Cauliflower	75
		Celery and celeriac	55

Chicory	65	Parsley	60
Citron	65	Parsnip	60
Collards	80	Peas	80
Corn	75	Pepper	55
Cress, garden	40	Pumpkin	75
Cress, water	25	Radish	75
Cucumber	80	Rhubarb	60
Dandelion	45	Rutabaga	75
Eggplant	60	Salsify	75
Endive	70	Sorrel	60
Fetticus (cornsalad)	70	Spinach (except New Zealand)	60
Kale	75	Spinach (New Zealand)	40
Kohlrabi	75	Squash	75
Leek	60	Swiss chard	65
Lettuce	80	Tomato	75
Muskmelon	75	Tomato, husk	50
Mustard	75	Turnip	80
Okra	50	Watermelon	70
Onion	70		

Labeling.

The following labels are suggested as meeting the minimum requirements of the New Hampshire seed law.

Example for unmixed agricultural seed:

John F. Doe Company
Greene, N. H.

Mammoth Clover — Lot No. 243

Pure seed	98.65	Germination	80%
Crop seed	.86	Hard seeds	7
Weeds	.38		
Inert matter	.11		
Origin Idaho		Date of test Jan. 1947	

1 dodder per oz.

Example for mixed agricultural seed:

John F. Doe Company
Greene, N. H.

Grass seed, mixed — Lot No. 0236

Purity:		Germination:	
Perennial ryegrass	32.23%	92.5%	Jan. 1947
Chewing fescue	18.08	85.0%	Dec. 1946
Kentucky bluegrass	14.75	80.0%	Jan. 1947
Canada bluegrass	15.37	58.5%	Jan. 1947
Creeping bent	14.20	84.0%	Jan. 1947
Crop seed	.61		
Weed seed	2.07		
Inert matter	2.69		

5 Crabgrass per oz.

Example for vegetable seed:

(Up to standard) "New York Lettuce
John Smith, Dale, Ill.
Date of Germination test: Feb. 7, 1947."

(For vegetable seed which germinates less than standard) "New York Lettuce
John Smith, Dale, Ill.
Date of Germination test: Feb. 7, 1947.
Germination 75%
BELOW STANDARD."

The law states that "each separate container of agricultural or vegetable seed, including seeds in small packets, shall be labeled"; but if a dealer has bulk lots of seeds exposed for sale and these bulk lots are properly labeled, he shall not be required to copy the information from the label on to each individual bag in which he delivers small lots of this bulk seed over the counter to customers.

N. H. EXPERIMENT STATION
AGRICULTURAL SEED INSPECTION, 1946

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
			(Note)	(Note)		(Note)	
Ayers & Jenkins Company, Rochester	14022	Millet, Hungarian, 83108 ..	S	S	98.34	S	88
	14003	Redtop, 4173	S	S	93.10	S	88
	13195	Timothy, 6243	S	S	99.65	S	87
Checkerboard Feed Store, . Lebanon	14243	Timothy, 12520	2/1945	S	99.60	S	90
Checkerboard Feed Store, . Manchester	14025	Corn, Yellow Flint, 8-row, 70	S	S	99.50	£2	90
Cheshire County Grain Co., Keene	14258	Alsike Clover, 14-110	S	S	99.00	64	90
	14256	Timothy	S	S	99.00	S	92
Cheshire County Farmers' Exchange, ... Keene	14255	Alsike Clover, 21203	S	A	97.30	S	78
	14260	Bluegrass, Kentucky, 032156	S	S	86.9	S	81
	14266	Ladino Clover, 026771, No. 1	S	98.00	99.50	S	68
Colebrook Feed Company, . Colebrook	13190	Oats, Vicland, 085-146	S	S	98.40	S	93
County Stores, Inc. ..... Milford	14043	White Dutch Clover	S	92.28	98.15	68	89.5
Edward J. Daneault Co., .. Nashua	14250	Red Clover, Medium, L 9 3346	S	S	99.27	A	70.5
	14251	Timothy, L 3 3846	S	S	99.50	S	90
Eastern States Farmers' Exchange, ... Manchester	13181	Hay Pasture Mixture No. 5, No. 1302:	S	....	....	....	....
		Red Clover, Medium ..	....	S	25.00	S	74
		Alsike Clover	....	S	20.00	S	84
		Ladino Clover	....	S	10.00	S	80
		Timothy	....	S	30.00	S	90
		Redtop	....	S	15.00	S	91
Farmers' Feed & Supply Co., Manchester	14245	Alsike Clover	S	98.24	....	S	42

(Note) S—Satisfactory; figures or blanks in these columns indicate violation.
A—Above or better than guarantee.

* As stated on tag accompanying seed.

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
General Mills, Inc.,	14249	Alfalfa, 28-400	S	S	99.6	S	75
Nashua	14246	Millet, Hungarian	....	98.31	....	90	....
	14248	Redtop, 30-151	S	S	93.4	S	90
	14254	Timothy, 10-631	S	79.65	99.75	71	93
General Mills, Inc.	14023	Alsike Clover, 25-442	S	S	98.55	S	78
Portsmouth	14024	Corn, Ensilage, Penn. 80 x 93	S	99.50	....	S	90
Hammer Hardware Co.,	14247	White Clover, 83-17	S	S	97.55	S	76
Nashua							
Jefferson Feed & Supply,	13198	Millet, Japanese, T5 B 45	S	S	97.58	S	80
Rochester	14000	Redtop, L 1—3846	S	S	94.22	S	90
	13191	Timothy, 3846	S	S	99.50	S	90
Keene Grain Company,	14267	Timothy, 66813-4	S	S	99.60	S	90
Keene							
Laconia Hardware,	14215	Soybeans, Edible Bansei	....	99.5	....	77	....
Laconia							
Lenz Hardware,	13180	Lawn Grass Mixture, Breck's Boston Park, No. 33664	S	....	....	....	....
Manchester		Chewings Fescue	....	S	19.54	S	90
		Kentucky Bluegrass	....	S	29.52	S	80
		Domestic Ryegrass	....	S	9.36	S	90
		Colonial Bent and Redtop	....	S	38.79	S	90
Lake Regions Feed & Supply,	14264	Ladino Clover, 8882-13	S	S	99.15	S	74
	14271	Redtop	S	S	94.49	S	90
Laconia							
H. P. Maxfield,	13199	Millet, Japanese	S	S	97.87	S	89
Pittsfield	14001	Redtop, Fancy	S	S	92.10	S	90
	13194	Timothy	S	S	99.75	S	90
Merrimack Farmers' Exchange, Inc.,	14132	Alfalfa, 28768	S	S	99.66	S	68
	14142	Alfalfa, Grimm, 27-15	S	S	99.27	54	77
Concord	14143	Alfalfa, 28-555	S	S	99.26	S	70

(Note) S—Satisfactory; figures or blanks in these columns indicate violation.
A—Above or better than guarantee.

* As stated on tag accompanying seed.

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Purity		Germination	
				Found	Guaranteed	Found	Guaranteed
	14130	Alsike Clover, 21-54	S	A	93.35	S	74
	14126	Barley, Wisconsin No. 38, 71-123	S	S	99.50	S	94
	14144	Bluegrass, Kentucky, 32-52	S	S	87.52	60	80
	14129	Brome Grass, Lincoln type, 97-5	S	S	87.22	S	88
	14121	Buckwheat, 86-320	S	A	97.50	S	85
	14122	Ladino Clover, 26600	S	S	97.50	S	64
	14138	Millet, Hungarian, 83-5 ...	S	S	98.08	S	80
	14125	Millet, Japanese, J5-C 46 ..	S	S	98.31	S	95
	14128	Oats, Merrimack Seeds ...	S	A	95	S	95
	14131	Rape, Dwarf Essex, 095715	S	S	99.50	S	93
	14120	Red Clover, Medium, 24468	S	S	99.42	S	75
	14135	Redtop, 41339	S	S	95.00	S	92
	14136	Redtop, Pine Tree, 41319 ..	S	S	95.60	S	90
	14124	Reeds Canary Grass, 687106-7	S	S	98.40	24	80
	14137	Rye, Spring, No. 74264 ...	S	96.08	98.44	S	91
	14139	Ryegrass, Domestic	S	S	99.52	S	91
	14127	Soybeans, Black Wilson, J14-C46	S	S	98.75	S	84
	14133	Timothy, 66821-2	S	S	99.65	S	92
	14134	Timothy, 66741	S	S	99.60	S	90
	14119	Vetch, 99203	S	S	99.29	S	81
	14141	Wheat, Spring, 75-210	S	S	98.00	S	90
	14140	White Clover, 26611	S	S	96.60	S	87
Merrimack Farmers' Exchange, Inc., ... Exeter	14027	Corn, Page's West Branch Sweepstakes	S	S	98.00	73	85
	14026	Timothy, 66741	S	S	99.60	S	90
Merrimack Farmers' Exchange, Inc., ... Manchester	14029	Alsike Clover, 021754	S	S	98.55	S	71
	14031	Corn, Page's Early Leaming, 6042A	S	S	98.00	S	90
	14032	Corn, Cornell, 29-3	S	99.50	....	S	98
	14033	Corn, Minnihybrid, 800, No. 57	S	S	99.50	S	95
	14028	Millet, Hungarian, 83-5 ...	S	S	98.08	A	80

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				Found	Guaranteed	Found	Guaranteed
Merrimack Farmers' Exchange, Inc., ... Milford	14055	Field Peas, 85-8	S	S	98.5	55	85
	14057	Soybeans, Black Wilson, J14C46	S	S	98.75	S	84
	14056	Vetch, Winter, 99-23	S	S	99.69	S	85
Merrimack Farmers' Exchange, Inc., ... Peterboro	14257	Alfalfa, Grimm, 27-15	S	S	99.27	58	77
	14268	Buckwheat, 86320	S	A	97.50	S	85
Merrimack Farmers' Exchange, Inc., ... Pittsfield	13197	Alsike Clover, 021754, 21200-1-2	S	S	98.55	S	71
	13193	Timothy, 66741	S	S	99.60	S	90
Milligan & Currier ..... Manchester	13178	Grass Seed, Quickgreen, X18:	S	....	....	....	....
		Ryegrass	....	S	40.18	S	90
		Timothy	....	20.76	28.71	S	80
		Redtop	....	A	14.50	63	75
		White Clover	....	S	1.00	S	80
		Kentucky Bluegrass ..	....	5.62	....	72	....
	13179	Timothy, 66675-6	S	S	99.65	A	78
A. M. Rand Company, ... Plymouth	14270	Red Clover, Medium	....	99.39	....	72	....
	14273	Redtop, 51-23	S	89.65	92.80	S	90
	14269	Timothy, 65-20	S	S	99.65	S	85
Rochester Grain Company, . Rochester	13196	Red Clover, Medium, 5978 .	S	S	99.00	S	88
	14002	Redtop, 3735	S	A	92.61	S	88
	13192	Timothy, 4459	S	S	99.60	S	90
Spaulding & Sons, ... Milford	14068	Alfalfa, Northern, 20524 ..	S	S	98.02	S	81
Spaulding & Sons, ... Nashua	14253	Millet, Hungarian, 48510 ..	S	S	98.48	S	87
	14252	Timothy, 12-26	S	S	99.27	S	93
Sunshine Feed Store, ... Manchester	14159	Millet, Hungarian, 90-21 ..	S	98.33	99.61	S	87
	14158	Millet, Japanese, 90-32	S	S	98.75	S	85
	14160	Redtop, 30-150	S	S	98.00	S	90
	14161	Timothy, 10-631	S	S	99.75	S	93

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				Found	Guaranteed	Found	Guaranteed
Thompson & Hoague Co., .. Concord	14078	Red Clover, Medium, 4172 .	S	96.61	98.60	54	86
	14076	Redtop, 41159	S	S	92.60	S	91
	14079	Timothy, 66531	S	S	99.60	S	92
Unity Grist Mill, ... Manchester	14165	Alfalfa, Canadian Grimm, 20531	S	S	99.56	51	70
	14163	Millet, Japanese, 81-22	3/1945	S	98.20	S	85
	14162	Red Clover, Medium, No. 50551	S	S	96.02	S	87
	14164	Red Clover, Medium, 24-5198	2/1945	S	99.32	S	85
Wirthmore, ... Greenville	14065	Alsike Clover (Labeled "Red Clover")	S	S	99.00	74	85
	14064	Redtop, 3079	S	S	90.95	S	81
	14063	Timothy, 4 x 59	S	S	99.60	S	90
Wirthmore Grain Company, Nashua	14262	Alsike Clover	S	S	98.00	S	79
	14244	Red Clover, Medium, 6173 .	S	S	99.10	S	78
	14263	Redtop, 3079	S	S	90.95	S	81
	14261	Timothy, 4459	S	S	99.60	S	90
Wirthmore Grain Company, Newport	14259	Alsike Clover, 6323	S	S	98.50	S	80
	14272	Red Clover, Medium, 8355 .	S	98.31	99.25	S	80
	14265	Redtop, 4175	S	S	93.10	S	88

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N. H. EXPERIMENT STATION
VEGETABLE SEED INSPECTION, 1946

Name and Address of Dealer	Sample No.	Kind of Seed	Date Tested*	Germination		
				Found	Guaranteed**	N. H. Standard
			(Note)	(Note)		
W. E. Aubuchon Company, Milford	14040	Beans, Improved Golden Wax	S	64	....	75
	14038	Carrot, Danvers Half Long	S	S	....	55
	14042	Corn, Golden Bantam	S	S	....	75
	14050	Cucumber, Imp. Long Green	S	S	....	80
	14041	Peas, American Wonder	S	S	....	80
	14039	Turnip, Rutabaga	S	S	....	75
W. E. Aubuchon Company, Nashua	14220	Beans, Kentucky Wonder	S	S	....	75
Bourke's General Store, Greenville	14047	Corn, Golden Bantam	S	S	....	75
	14049	Cucumber, Long Green	S	S	....	80
	14046	Onion, White Globe	S	S	70	70
	14048	Peas, World's Record	S	S	....	80
Bryant & Lawrence, Tilton	14199	Corn, Golden Cross Bantam	....	S	....	75
	14235	Cucumber, Long Green Improved	....	53	....	80
Cavis Brothers, Bristol	14217	Beet, Crosby's Egyptian	S	S	....	65
	14195	Peas, Thomas Laxton	S	S	....	80
Checkerboard Feed Store, Lebanon	14188	Cabbage, Danish Ball Head	....	S	....	75
	14181	Peas, Tall Telephone	2/1944	80	88	80
Checkerboard Feed Store, Manchester	14070	Beans, Bush, Sure Crop Wax	S	S	80	75
	14074	Beets, Crosby's Early Egyptian	S	S	70	65
	14073	Carrot, Chantenay	S	S	55	55
	14071	Cucumber, Imp. Long Green	....	S	....	80
	14072	Parsnip, Hollow Crown	S	S	65	60
	14069	Peas, Laxtonian	S	72	85	80

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				Found	Guaranteed**	N. H. Standard
County Stores, Inc., ... Milford	14044	Beets, Detroit Dark Red ..	S	S	....	65
	14045	Peas, Notts Excelsior	S	S	....	80
Edward J. Daneault Company, ... Nashua	14221	Beans, Pencil Pod Black Wax	....	S	....	75
	14231	Corn, Sweet, Gold Rush Hybrid	....	S	....	75
	14232	Corn, Golden Bantam	S	S	90	75
	14234	Corn, Whipple's Early Yellow	S	82	90	75
	14227	Cucumber, Long Yellow ...	12/1944	S	85	80
Dover Hardware & Plumbing, ... Dover	13182	Beans, Burpee's Stringless Green Pod	S	S	85	75
	14009	Peas, Telephone or Alderman	/1946	S	....	80
Frank Dunn, ... Wilton	14037	Beets, Early Blood Turnip .	S	60	65	65
	14034	Carrot, Imperator	S	S	55	55
	14036	Lettuce, Early Prize Head .	S	S	80	80
	14035	Onion, Yellow Globe Danvers	S	S	70	70
Geo. Eggleston Store, ... Canaan Center	14186	Beans, Green Kentucky Wonder	....	S	85	75
Farmers' Feed & Supply Co., North Haverhill	14153	Corn, Golden Sunshine	1/1943	80	90	75
Fogg's Hardware, ... Enfield	14185	Beans, Dwarf Horticultural Bush Shell	S	75	90	75
H. J. Follansbee ..... Bristol	14169	Beans, Red Stringless Valentine Bush	S	S	....	75
Eugene C. Foss Company, .. Rochester	14005	Beans, French Horticultural Bush	/1946	69	87	75
	14019	Beets, Detroit Dark Red ..	....	S	....	65
	14015	Carrot, Danvers Half Long	/1946	S	....	55

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				Found	Guaranteed**	N. H. Standard
Gardner's Hardware, ... Concord	14093	Endive, Green Curled	S	S	70	70
	14094	Lettuce, Romaine or White Cos	S	S	80	80
	14092	Parsnip, Hollow Crown ...	S	S	60	60
General Mills (Farm Service), ... Exeter	14061	Carrot, Red Cored Chantenay	S	S	69	55
	14062	Squash, Green Hubbard ...	S	S	76	75
General Mills, Inc., ... Nashua	14166	Carrot, Danvers	S	S	....	55
	14225	Peas, Thomas Laxton	....	S	....	80
	14167	Spinach, New Zealand	S	S	....	40
	14077	Turnip, Purple Top White Globe	....	S	....	80
The Green Store, ... North Haverhill	14148	Beets, Detroit Dark Red ...	S	S	65	65
	14152	Corn, Sweet White, Stowell's Evergreen	S	S	75	75
Hammer Hardware, ... Nashua	14218	Beans, White Pea	....	S	....	75
	14201	Cabbage, Copenhagen Market	....	S	90	75
Hick's Hardware, ... Colebrook	13186	Beans, Dwarf Horticultural	....	S	....	75
	13187	Beans, Red Valentine	....	S	....	75
	13189	Beets, Detroit Dark Red ..	S	52	80	65
	13188	Carrot, Danvers Improved Half Long	....	S	....	55
Hopkins & Packard, ... Peterboro	14180	Lettuce, Prize Head Early .	S	S	80	80
	14177	Muskmelon, Bender's Surprise	S	S	80	75
Kalkin's Flower Shop, ... Portsmouth	14075	Beans, Stringless Green Pod	/1946	S	80	75
E. J. Keegan Company, ... Franklin	14183	Carrot, Danvers Half Long	....	S	....	55
	14204	Corn, Golden Sunshine Sweet	....	S	....	75

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				Found	Guaranteed**	N. H. Standard
Keene Grain Company, ... Keene	14196	Beans, Pencil-Pod Black Wax	S	S	85	75
	14207	Beans, Dwarf Horticultural	S	79	90	75
	14209	Beans, Red Kidney	S	S	88	75
	14197	Corn, Golden Bantam	S	S	93	75
	14174	Cucumber, Early Short Green	....	S	....	80
	14193	Squash, Butternut	S	S	90	75
Kimball's Hardware, ... Exeter	14052	Squash, Butternut	....	S	....	75
	14051	Turnip, Rutabaga or Swede	....	S	....	75
S. S. Kresge Company, ... Keene	13184	Beans, Golden Wax Bush ..	....	S	....	75
	13185	Corn, Hybrid Sweet, Golden Cross Bantam	S	S	90	75
	13183	Peas, Bush Premium Gem	....	S	....	80
Laconia Hardware, ... Laconia	14191	Beans, Dwarf Horticultural	S	63	75	75
Lake Regions Feed & Supply, ... Laconia	14200	Corn, Golden Bantam Sweet	S	S	....	75
Lewis Bros. Hardware, ... Lebanon	14187	Beans, Top Notch Golden Wax	11/1943	75	85	75
	14230	Corn, Bantam Evergreen .	11/1944	75	85	75
Martin's Hardware, ... Newport	14211	Beets, Crosby's Egyptian .	S	S	65	65
	14172	Cabbage, Early Flat Dutch	S	70	....	75
	14205	Corn, Tender Gold	....	S	....	75
	14171	Cucumber, Improved Long Green	S	S	....	80
	14176	Cucumber, Straight 8	S	S	80	80
	14168	Lettuce, Oak Leaf	....	S	....	80
	14212	Lettuce, Green Icehead or New York	S	S	80	80

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Martin's Hardware, ... Newport (continued)	14194	Parsnip, Hollow Crown (Breck)	....	S	....	60
	14213	Parsnip, Hollow Crown (Rice)	S	S	70	60
	14178	Radish, Early Scarlet Globe	S	71	75	75
Merrimack Farmers' Exchange, Inc., ... Concord	14103	Beans, Red Kidney	S	S	....	75
	14117	Beans, Yellow Eye	S	S	....	75
	14118	Beans, Sure Crop Black Wax	S	S	....	75
	14104	Beets, Early Wonder	S	S	....	65
	14113	Broccoli, Green Sprouting .	S	62	....	75
	14100	Cabbage, Copenhagen Market	S	S	....	75
	14109	Carrot, Long Orange	S	S	....	55
	14115	Cauliflower, Early Snowball	S	S	....	75
	14123	Corn, Sweet, Golden Bantam	S	S	....	75
	14111	Cucumbers, Davis Perfect	S	S	....	80
	14110	Lettuce, Early Prize Head .	S	S	....	80
	14114	Muskmelons, Bender's Surprise	S	S	....	75
	14096	Onions, Yellow Globe Danvers	S	S	....	70
	14099	Parsnips, Hollow Crown ...	S	S	....	60
	14116	Peas, Dwarf Telephone ...	S	S	....	80
	14105	Peppers, Merrimack Wonder	S	S	....	55
	14108	Pumpkin, Conn. Field	S	S	....	75
	14101	Radish, White Icicle	S	S	....	75
	14106	Rutabaga Turnips, American Improved	S	S	....	75
	14102	Spinach, King of Denmark	S	S	....	60
	14112	Squash, Green Hubbard ...	S	S	....	75
	14107	Swiss Chard, Lucullus	S	S	....	65

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				Found	Guaranteed**	N. H. Standard
Merrimack Farmers' Exchange, Inc., Concord (continued)	14098	Tomatoes, Home Garden	S	S	....	75
	14095	Turnip, Purple Top White Globe	S	S	....	80
	14097	Watermelon, Phinney's Early	S	S	....	70
Merrimack Farmers' Exchange, Inc., Manchester	14030	Corn, Golden Bantam, No. 13750	S	S	90	75
Merrimack Farmers' Exchange, Inc., Rochester	14008	Corn, Golden Sunshine	....	S	....	75
	14020	Parsnip, Hollow Crown	S	S	....	60
Ralph Mills, Plymouth	14192	Beans, Kentucky Wonder Pole	....	S	....	75
	14224	Beets, Detroit Dark Red	....	47.5	....	65
	14198	Corn, Golden Bantam	S	S	....	75
Montgomery Ward, Portsmouth	14175	Cucumber, Straight 8	S	S	80	80
Nashua Hardware, Nashua	14237	Beans, Red Kidney	....	S	....	75
	14238	Beans, Pole Lima	....	S	....	70
	14233	Radish	....	S	....	75
Neal's Hardware, Dover	14004	Beans, Kentucky Wonder Pole	S	S	....	75
	14018	Beets, Crosby's Egyptian	S	S	....	65
	14014	Carrot, Danvers	S	S	....	55
	14007	Corn, Marcross Hybrid	S	S	....	75
	14006	Cucumber, Davis Perfect	S	S	....	80
	14010	Peas, Blue Bantam	S	S	....	80
	14016	Squash, Warren Turban	S	67	....	75
J. J. Newberry, Franklin	14173	Onion, Yellow Globe Danvers	S	S	....	70
	14170	Parsnip, Improved Hollow Crown	S	S	....	60

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J. J. Newberry, ... Rochester	14017	Beets, Detroit Dark Red ..	S	S	....	65
	14012	Carrot, Chantenay Red Cored	S	S	....	55
J. H. Nichols, ... Warren	14151	Beans, Pencil Pod Black Wax	S	S	90	75
	14149	Carrot, Danvers Half Long Orange	S	S	55	55
	14150	Parsnip, Improved Hollow Crown	S	22.50	60	60
Osgood's Hardware, ... Nashua	14226	Beans, Pea	....	S	....	75
	14228	Beans, Red Kidney	....	65	....	75
	14241	Beets, Detroit Dark Red, E9-8	S	S	72	65
	14223	Corn, G. B., 207-8	S	E2	90	75
	14240	Turnip, Rutabaga or Swede	....	S	....	75
Packard & Hopkins, ... Peterboro	14179	Tomato, Wilt Resistant Marglobe	S	S	75	75
L. L. Peavey, ... Portsmouth	14058	Spinach, New Zealand	S	S	....	40
	14059	Spinach, Bloomsdale	....	S	....	60
Portsmouth Hardware & Plumbing, ... Portsmouth	14054	Swiss Chard, Lucullus	....	S	70	65
	14053	Tomato, Pritchard	S	79	90	75
Putnam Hardware, ... Laconia	14216	Beans, Bountiful	....	S	....	75
	14214	Beets, Crosby's Egyptian .	S	57	....	65
	14182	Corn, Sunshine	S	S	....	75
A. M. Rand Company, ... Plymouth	14190	Beets, Detroit	S	55.5	65	65
	14208	Corn, Golden Cross Bantam	S	S	75	75
	14219	Peas, World's Record	S	S	....	80
Scrugg's Hardware, ... Woodsville	14145	Carrot, Long Orange, 157-8	S	S	61	55
	14155	Onion, White Globe	S	63	....	70
	14154	Pepper, Hot Bull Nose	S	S	55	55

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Sears Roebuck, ...	14091	Beets, Early Blood Turnip	S	S	70	65
Concord	14090	Carrot, Danvers	S	S	55	55
	14087	Onion, Bunching Scallion .	S	S	75	70
	14089	Radish, Scarlet Turnip, White Tip	S	S	80	75
	14088	Turnip, Purple Top Strap Leaf	S	S	80	80
J. H. Seavey, ...	14013	Carrot, Half Long	S	S	68	55
Dover	14011	Corn, Golden Evergreen ..	S	72	86	75
	14021	Parsnip, Hollow Crown ..	S	S	70	60
Henry Soucy, ...	14222	Spinach, Savoy	....	S	77	60
Nashua						
Spaulding & Sons, ...	14242	Cucumber, Davis Perfect ..	S	55	86	80
Nashua	14239	Peas, Alaska	S	S	90	80
Spencer Hardware, ...	14202	Beets, Early Wonder	S	60.5	....	65
Keene	14203	Parsnip, Long Smooth	S	S	....	60
	14206	Peas, Laxton's Progress ..	S	S	....	80
	14189	Squash, Early Summer ...	S	S	....	75
C. P. Stevens, ...	14210	Cabbage, Danish Ball Head	S	S	....	75
Franklin						
Sunshine Feed Store, ...	14157	Parsnip, Sugar, Cup or Hollow Crowned	S	S	72	60
Manchester						
	14156	Squash, Blue Hubbard	S	S	75	75
Thompson & Hoague Company, ...	14081	Beans, Yellow Eye	S	79	90	75
	14084	Cabbage, Danish Ball Head	S	66	80	75
Concord	14080	Corn, Imp. Golden Bantam, 25585	S	S	90	75
	14086	Corn, Golden Bantam	S	S	84	75
	14085	Lettuce, Big Boston	S	S	84	80
	14083	Onion, Southport Yellow Globe	S	S	80	70
	14082	Parsnip, Hollow Crown ...	S	S	68	60

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H. L. Webster Company, ... West Canaan	14184	Beans, Green Wax	S	S	85	75
Wendell's, ... Portsmouth	14060	Peas, Gradus	S	S	....	80
Wirthmore Grain Store, ... Nashua	14229	Carrot, Half Long	....	S	....	55
	14236	Corn, Hybrid Sweet	S	S	97	75
Woodsville Hardware, ... Woodsville	14147	Beans, Hart's Sure Crop Wax	....	47	....	75
	14146	Peas, Sutton's Excelsior ..	....	55	....	80
Young's Hardware, ... Exeter	14067	Beets, Crosby's Egyptian .	....	S	....	65
	14066	Swiss Chard	....	S	....	65

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